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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/817,492	04/02/2004	David M. Rinehart	AD6992 USNA	2324	
23906	23906 7590 04/27/2006			EXAMINER	
E I DU PONT DE NEMOURS AND COMPANY			THOMAS, ALEXANDER S		
	ENT RECORDS CENTE	ART UNIT	PAPER NUMBER		
BARLEY MILL PLAZA 25/1128 4417 LANCASTER PIKE WILMINGTON, DE 19805			1772		
			DATE MAILED: 04/27/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/817,492	RINEHART ET AL.		
		Examiner	Art Unit		
		Alexander Thomas	1772		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAMES OF THE MAILING DA	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON in the come of the come and the come an	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status					
1)🖂	Responsive to communication(s) filed on 13 Ap	oril 2006.			
	This action is FINAL . 2b) ☐ This action is non-final.				
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.		
Dispositi	ion of Claims				
5)⊠ 6)⊠ 7)⊠	Claim(s) 1-7 and 10-32 is/are pending in the ap 4a) Of the above claim(s) is/are withdraw Claim(s) 23-32 is/are allowed. Claim(s) 1.10-17 and 20 is/are rejected. Claim(s) 2-7.18,19,21 and 22 is/are objected to Claim(s) are subject to restriction and/or	wn from consideration.			
Applicati	ion Papers				
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Examiner	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). njected to. See 37 CFR 1.121(d).		
Priority u	under 35 U.S.C. § 119				
12) 🗌 a) [Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicat ity documents have been receiv I (PCT Rule 17.2(a)).	ion No ed in this National Stage		
2) Notic 3) Inform	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 3/9/06.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:			

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DETAILED ACTION

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Claim Objections

1. Claims 2, 3 and 18 are objected to because of the following informalities: there is no antecedent basis for the term "second glazing structure" in claim 3 or the term "interlocking element" in claims 2 and 18. It is suggested that the term – second glazing element — be used in place of "second glazing structure". Appropriate correction is required.

Double Patenting

2. The double patenting rejections set forth in the previous office action have been overcome by the filing of the terminal disclaimer and in view of applicants' arguments.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 00/64670. Applicants' arguments have been considered but are not deemed persuasive. Applicants argue that the reference doesn't disclose "an element that can be interlocked with a second glazing element" or an element useful for aligning the glazing element. Neither of these two statements provide any specific structure feature to the claimed article. Furthermore, any of the elements 10D, 10E, 15, 21, etc. shown in

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the figures of the reference could be interlocked with a second glazing element and could be useful for aligning the element.

5. Claims 1 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Walters et al. Applicants' arguments have been considered but are not deemed persuasive. Applicants argue that the reference doesn't disclose "an element that can be interlocked with a second glazing element" or an element useful for aligning the glazing element. Neither of these two statements provide any specific structure feature to the claimed article. Furthermore, the opening 28 could be used to interlock the element 10 with a second glazing element and could be used for aligning the element.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 00/64670 in view of either applicants' acknowledged state of the art or Bolton et al ('346). The primary reference discloses the invention substantially as claimed; see Figure 4. However, it does not disclose the claimed thermoplastic interlayer material. The secondary references disclose the claimed interlayer materials as layers used in glazing laminates; see the instant specification page 5, line 26 through page 7, line 2 and note that Bolton et al disclose the use of Surlyn as an interlayer in glazing

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elements. It would have been obvious to one of ordinary skill in the art to use a known interlayer, such as Surlyn, in the product of the primary reference in view of the secondary references depending on the desired structural properties for a particular end use.

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- 8. Claims 16, 17 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 00/64670 in view of either applicants' acknowledged state of the art or Bolton et al ('346) as applied to claims 11-14 above, and further in view of Biebuyck 6,158,182. Biebuyck discloses placing glazing units between a pressure plate and a mullion in order to mount the glazing unit; see Figure 6 and column 5, line 55 through column 6, line 6. It would have been obvious to one of ordinary skill in the art to mount the glazing unit of the prior art in the structure disclosed in Biebuyck in order to provide a means of mounting the glazing units into a wall structure.
- 9. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over WO 00/64670 in view of Biebuyck. The primary reference discloses the invention substantially as claimed; see Figure 4. However, it does not disclose the use of a pressure plate and a mullion in order to mount the glazing unit. Biebuyck discloses placing glazing units between a pressure plate and a mullion in order to mount the glazing unit; see Figure 6 and column 5, line 55 through column 6, line 6. It would have been obvious to one of ordinary skill in the art to mount the glazing unit of the prior art in the structure disclosed in Biebuyck in order to provide a means of mounting the glazing units into a wall.

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Allowable Subject Matter

10. Claims 2-7, 18, 19, 21 and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

11. Claims 23-32 are allowed.

Conclusion

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Thomas whose telephone number is 571-272-1502. The examiner can normally be reached on 6:30-4:00 M-THUR.

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Business Center (EBC) at 866-217-9197 (toll-free).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571-272-1498. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

ALEXANDER S. THOMAS PRIMARY EXAMINER

alexendy S Thomas

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